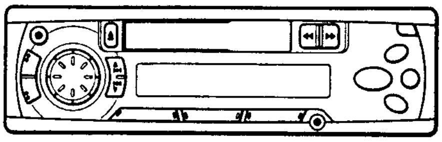
aiwa
SERVICE

CT-Z110 YJ(S)



SERVICE MANUAL

STEREO CAR CASSETTE RECEIVER	BASIC TAPE MECHANISM : TN-715-DH-116

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-005-344-9T1).

aiwa

S/M Code No. 09-005-344-9R1

REVISION
DATA

SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range:	87.5 MHz–108 MHz (50-kHz steps) 87.5 MHz-108 MHz (100-kHz steps)
Usable Sensitivity:	12.7 dBf
50 dB Quieting Sensitivity:	17.2 dBf
IF Rejection:	80 dB
Frequency Response:	30 Hz-15,000 Hz
S/N Ratio:	63 dB
Stereo Separation:	35 dB at 1 kHz
Alternate Channel Selectivity:	70 dB
Capture Ratio:	3 dB

(AM)

Frequency Range:	531 kHz–1,602 kHz (9-kHz steps) 530 kHz–1,710 kHz (10-kHz steps)
Usable Sensitivity:	30 µV (30 dB)

TAPE SECTION

Tape Speed:	4.8 cm/sec. ($1^7/_8$ ips)
S/N Ratio:	50 dB
Frequency Response:	40 Hz–14,000 Hz
Stereo Separation:	40 dB
FF/REW Time:	190 sec. (C-60)

AUDIO SECTION

Max. Power Output:	35 W x 4 channels

AUX IN input

Input sensitivity (load impedance)

AUX:	300 mV (10 kΩ)

GENERAL

Power-Supply Voltage:	14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance:	4Ω
Tone Control:	Bass ± 10 dB at 100 Hz Treble ± 10 dB at 10 kHz
Installation size:	182(W) x 53(H) x 155(D) mm ($7^1/_4$(W) x $2^1/_8$(H) x $6^1/_8$(D) inches)

• Design and specifications are subject to change without notice.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KTH-902-010		IB,Y(E CH A) 110
2	8A-KT5-908-010		IB,INST,YH,Y (E CK CH A)-A
3	86-KT1-237-010		HLDR,REAR MTG
4	87-B10-141-010		NUT,5 TYPE-2
5	87-B10-143-010		UT1+5-15 W/O SLOT
6	87-B10-144-010		W,5.2-10-0.5
7	87-B10-145-010		W-SPR,5.3-8.5-1.5
8	88-KT1-247-010		S-SCREW,HEXAGON
9	8Z-KT1-231-010		HLDR,HALF -T
10	8Z-KT1-232-010		KEY,REMOVE -T
11	8Z-KT1-251-010		S-SCREW,5*6 TH+ TAPPING ST
12	8Z-KT1-625-010		CONN ASSY,16P SOC016

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-191-010		IC,KIA6225S
	8Z-KT1-622-010		C-IC,LC75374E
	8Z-KTG-622-010		IC,TA8259H
	87-A21-540-030		C-IC,LC72336-9911
TRANSISTOR			
	87-A30-473-080		TR,KRC102M-AT
	8Z-KTH-622-080		TR,KTC3198Y
	8Z-KTH-623-080		TR,KTA1267Y
	87-A30-295-010		TR,KRA226M
	8Z-KTH-627-080		TR,KTA1273Y
	87-A30-475-080		TR,KRA104M-AT
	8Z-KTH-626-080		TR,KTC3203Y
	87-A30-476-010		TR,KTA1046Y
	89-423-953-010		TR,2SD2395F
	87-026-313-080		TR,DTC343TS
	87-A30-467-040		C-TR,KRA111S-RTK
	87-A30-468-040		C-TR,KRC102S-RTK
	87-A30-469-040		C-TR,KRC111S-RTK
	87-A30-472-040		C-TR,KRA226S-RTK
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-001-783-080		DIODE,1N4002
	87-A40-509-080		ZENER,MTZJ 6.8C
	87-070-022-010		DIODE,IN5402 (RECT)
	87-A40-344-080		ZENER,MTZJ6.2C
	87-070-334-080		ZENER,MTZJ10B
	87-A40-337-080		ZENER,MTZJ 6.8B
	87-A40-523-080		ZENER,MTZJ9.1B
	87-A40-256-080		DIODE,RB441Q40
MAIN C.B			
C101	87-018-119-080		CAP, CER 100P-50V
C102	87-018-134-080		CAPACITOR,TC-U 0.01-16
C103	87-018-134-080		CAPACITOR,TC-U 0.01-16
C104	87-018-209-080		CAP, CER 0.1-50V
C105	87-018-134-080		CAPACITOR,TC-U 0.01-16
C106	87-010-402-080		CAP, ELECT 2.2-50V
C107	87-010-380-080		CAP, ELECT 47-16V
C108	87-010-380-080		CAP, ELECT 47-16V
C109	87-018-209-080		CAP, CER 0.1-50V
C114	87-018-134-080		CAPACITOR,TC-U 0.01-16
C115	87-010-380-080		CAP, ELECT 47-16V
C116	87-018-209-080		CAP, CER 0.1-50V
C117	87-018-209-080		CAP, CER 0.1-50V
C118	87-018-134-080		CAPACITOR,TC-U 0.01-16
C119	87-010-992-080		C-CAP,S 0.047-25 B
C120	87-010-992-080		C-CAP,S 0.047-25 B
C201	87-018-131-080		CAP, CER 1000P-50V
C202	87-018-131-080		CAP, CER 1000P-50V
C203	87-010-378-080		CAP, ELECT 10-16V
C204	87-010-378-080		CAP, ELECT 10-16V
C205	87-010-248-080		CAP, ELECT 220-10V
C206	87-010-248-080		CAP, ELECT 220-10V
C207	87-010-198-080		CAP, CHIP 0.022
C208	87-010-198-080		CAP, CHIP 0.022
C209	87-010-263-080		CAP, ELECT 100-10V
C210	87-010-401-080		CAP, ELECT 1-50V
C211	87-010-401-080		CAP, ELECT 1-50V
C212	87-010-380-080		CAP, ELECT 47-16V
C301	87-018-131-080		CAP, CER 1000P-50V
C302	87-018-131-080		CAP, CER 1000P-50V
C303	87-010-401-080		CAP, ELECT 1-50V
C304	87-010-401-080		CAP, ELECT 1-50V
C401	87-010-401-080		CAP, ELECT 1-50V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C402	87-010-401-080		CAP, ELECT 1-50V
C403	87-010-401-080		CAP, ELECT 1-50V
C404	87-010-401-080		CAP, ELECT 1-50V
C405	87-010-184-080		CHIP CAPACITOR 3300P(K)
C406	87-010-184-080		CHIP CAPACITOR 3300P(K)
C407	87-010-198-080		CAP, CHIP 0.022
C408	87-010-198-080		CAP, CHIP 0.022
C409	87-010-378-080		CAP, ELECT 10-16V
C410	87-010-378-080		CAP, ELECT 10-16V
C411	87-016-083-080		C-CAP,S 0.15-16 RK
C412	87-016-083-080		C-CAP,S 0.15-16 RK
C413	87-016-083-080		C-CAP,S 0.15-16 RK
C414	87-016-083-080		C-CAP,S 0.15-16 RK
C415	87-010-378-080		CAP, ELECT 10-16V
C416	87-010-378-080		CAP, ELECT 10-16V
C417	87-010-380-080		CAP, ELECT 47-16V
C418	87-010-196-080		CHIP CAPACITOR,0.1-25
C419	87-010-378-080		CAP, ELECT 10-16V
C420	87-010-401-080		CAP, ELECT 1-50V
C421	87-010-401-080		CAP, ELECT 1-50V
C422	87-010-401-080		CAP, ELECT 1-50V
C423	87-010-401-080		CAP, ELECT 1-50V
C424	87-010-196-080		CHIP CAPACITOR,0.1-25
C425	87-010-196-080		CHIP CAPACITOR,0.1-25
C501	87-016-083-080		C-CAP,S 0.15-16 RK
C502	87-016-083-080		C-CAP,S 0.15-16 RK
C503	87-016-083-080		C-CAP,S 0.15-16 RK
C504	87-016-083-080		C-CAP,S 0.15-16 RK
C505	87-018-196-080		CAP, CER 1500P-16V
C506	87-018-196-080		CAP, CER 1500P-16V
C507	87-018-196-080		CAP, CER 1500P-16V
C508	87-018-196-080		CAP, CER 1500P-16V
C509	87-010-404-080		CAP, ELECT 4.7-50
C510	87-018-209-080		CAP, CER 0.1-50V
C511	8A-KC7-623-000		CAP,E 2200U-16 PW
C512	87-010-401-080		CAP, ELECT 1-50V
C513	87-010-401-080		CAP, ELECT 1-50V
C520	87-010-182-080		C-CAP,S 2200P-50 B
C521	87-010-182-080		C-CAP,S 2200P-50 B
C601	87-018-209-080		CAP, CER 0.1-50V
C602	87-010-379-080		CAP, ELECT 22-16V
C604	87-018-209-080		CAP, CER 0.1-50V
C605	87-010-379-080		CAP, ELECT 22-16V
C606	87-010-380-080		CAP, ELECT 47-16V
C607	87-010-263-080		CAP, ELECT 100-10V
C701	87-010-314-080		C-CAP,S 22P-50V
C702	87-010-197-080		CAP, CHIP 0.01 DM
C703	87-010-263-080		CAP, ELECT 100-10V
C704	87-010-198-080		CAP, CHIP 0.022
C705	87-010-313-080		CAP, CHIP 18P
C706	87-010-315-080		C-CAP,S 27P-50 CH
C707	87-018-131-080		CAP, CER 1000P-50V
C708	87-010-401-080		CAP, ELECT 1-50
C712	87-018-208-010		CAP,TC-U 0.047-50 F
C713	87-018-208-010		CAP,TC-U 0.047-50 F
C801	87-018-134-080		CAPACITOR,TC-U 0.047
C802	87-018-134-080		CAPACITOR,TC-U 0.047
CNA201	8Z-KTH-652-010		CONN ASSY,3P (HEAD)
CNA202	8Z-KTH-651-010		CONN ASSY,8P (DECK)
CON201	87-009-031-010		CONNECTOR, 3P
CON202	87-099-408-010		CONN,8P EH V WHT
CON301	8Z-KTH-612-010		CONN,3P HEADER-STRAIGHT
CON601	8Z-KT1-624-010		CONN,16P SOC017
⚠F601	8Z-KC1-621-010		FUSE,15A
J101	8Z-KT1-614-010		ANT,AW-002
L101	87-003-143-080		COIL 4.7 UH
L102	8Z-KT1-619-010		COIL,68MH K7-D
L301	87-003-143-080		COIL 4.7 UH
L601	8Z-KT1-615-010		FLTR,AMORPHOUS -CHOKE
L701	87-A50-375-010		COIL,1UH K LAL02

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L702	87-003-149-080		COIL,47UH
SW901	87-A91-152-010		SW,SL 1-1-2 SSSS212-11-A
TUN101	8A-KC8-624-010		TU UNIT, FAE347-A16
X701	87-A70-175-010		VIB,XTAL 4.5MHZ AT-49

FRONT C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
D801	87-017-827-070		C-LED,SEC1201C,RED
D802	87-017-827-070		C-LED,SEC1201C,RED
D803	87-017-827-070		C-LED,SEC1201C,RED
D804	87-A40-813-040		C-LED,SEC1E01C BLUE
D805	87-A40-813-040		C-LED,SEC1E01C BLUE
D806	87-A40-813-040		C-LED,SEC1E01C BLUE
LCD801	8A-KTG-612-010		LCD,AKT-17
PL801	8A-KT7-655-010		LAMP,9V-50MA
PL802	8A-KT7-655-010		LAMP,9V-50MA
SW801	87-036-251-080		SW,T CT 6X3.5 160
SW802	87-036-251-080		SW,T CT 6X3.5 160
SW803	87-036-251-080		SW,T CT 6X3.5 160
SW804	87-036-251-080		SW,T CT 6X3.5 160
SW805	87-036-251-080		SW,T CT 6X3.5 160
SW806	87-036-251-080		SW,T CT 6X3.5 160
SW807	87-036-251-080		SW,T CT 6X3.5 160
SW808	87-036-251-080		SW,T CT 6X3.5 160
SW809	87-036-251-080		SW,T CT 6X3.5 160
SW810	87-036-251-080		SW,T CT 6X3.5 160
SW811	87-036-251-080		SW,T CT 6X3.5 160
SW812	87-036-251-080		SW,T CT 6X3.5 160
SW813	87-036-251-080		SW,T CT 6X3.5 160
SW814	87-036-251-080		SW,T CT 6X3.5 160
SW815	87-036-251-080		SW,T CT 6X3.5 160
VR801	87-A91-597-010		SW,RTRY SIM-026MT

AUX C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
J301	87-A61-229-010		JACK,3.5 BLK ST W/SW

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

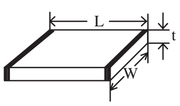
8 8 − □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

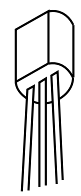
桁表示
Figure

抵抗値
Value of resistor

チップ抵抗
Chip resistor

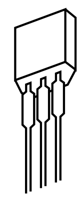
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



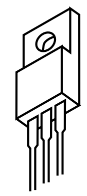
E C B

KTC3198
KTC3203



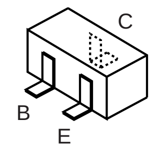
E C B

DTC343TS
KRA104M
KRA226M
KRC102M
KTA1267
KTA1273



B C E

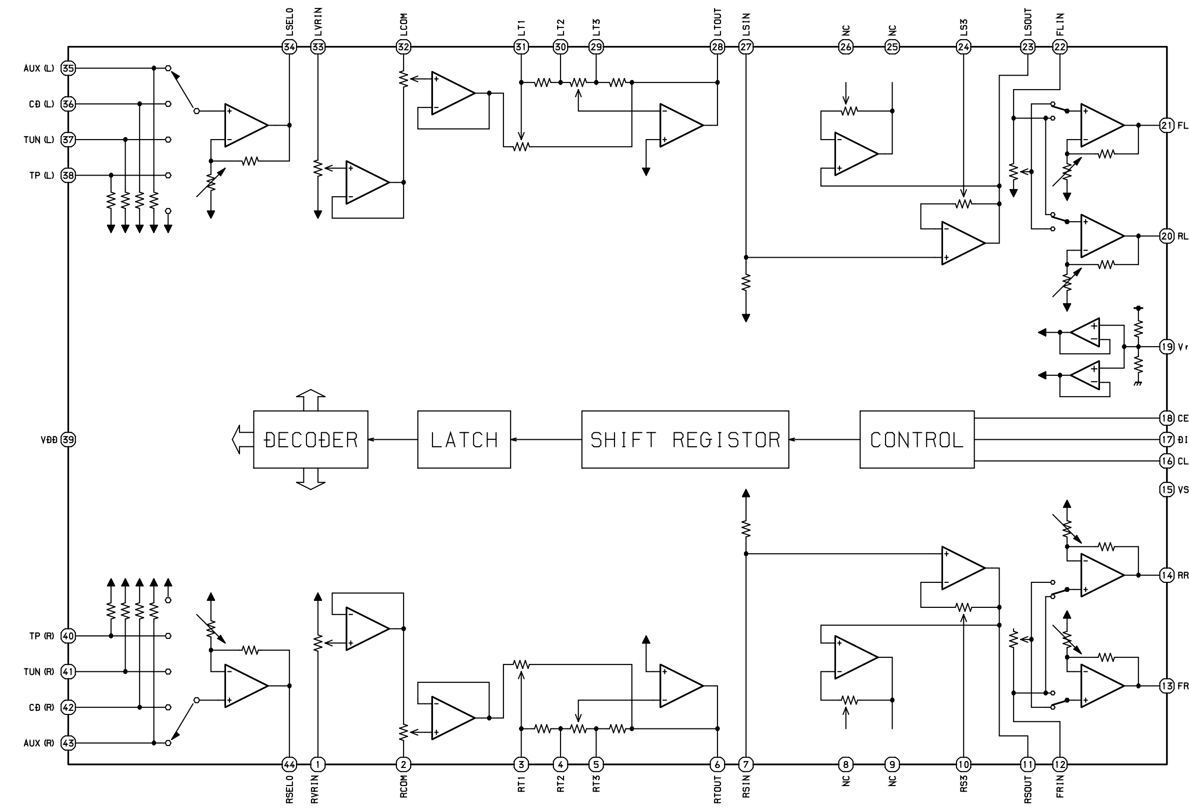
2SD2395
KTA1046



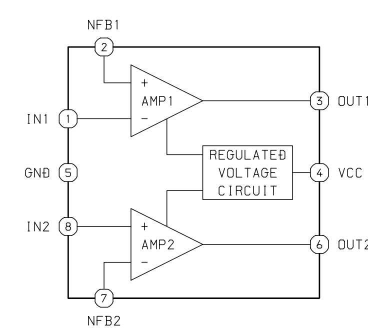
KRA111S
KRA226S
KRC102S
KRC111S

IC BLOCK DIAGRAM-1

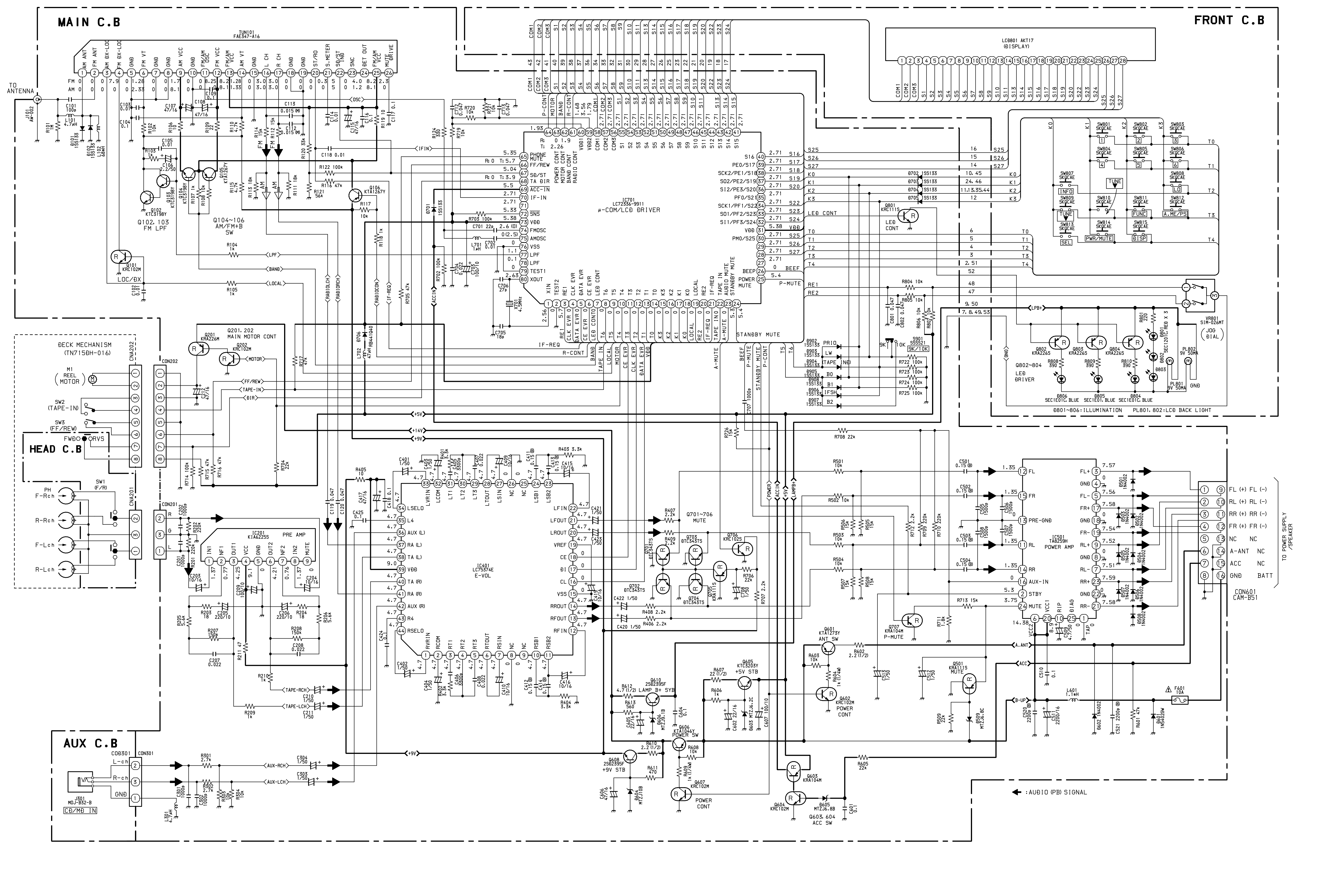
IC, LC75374E

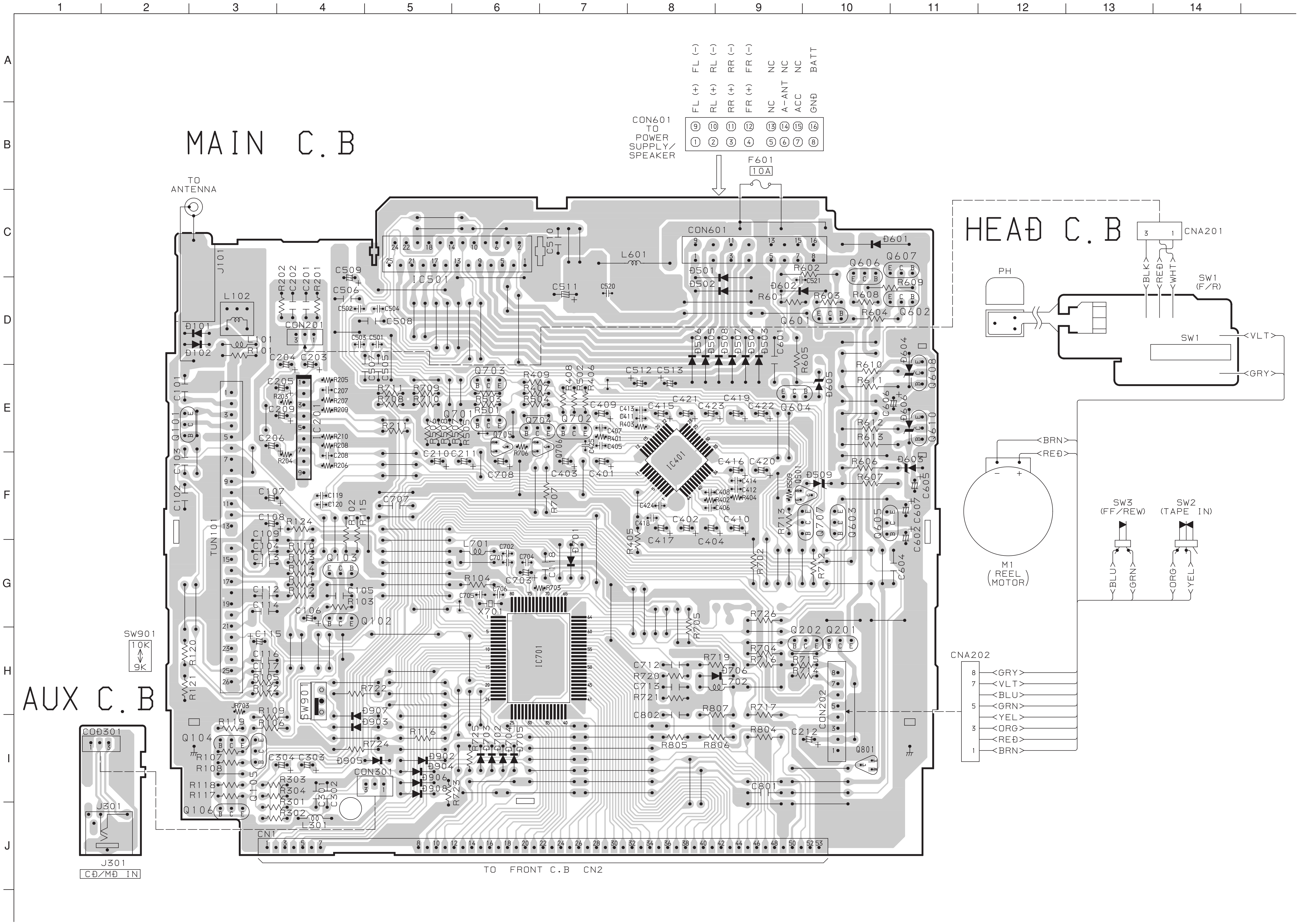


IC, KIA6225S

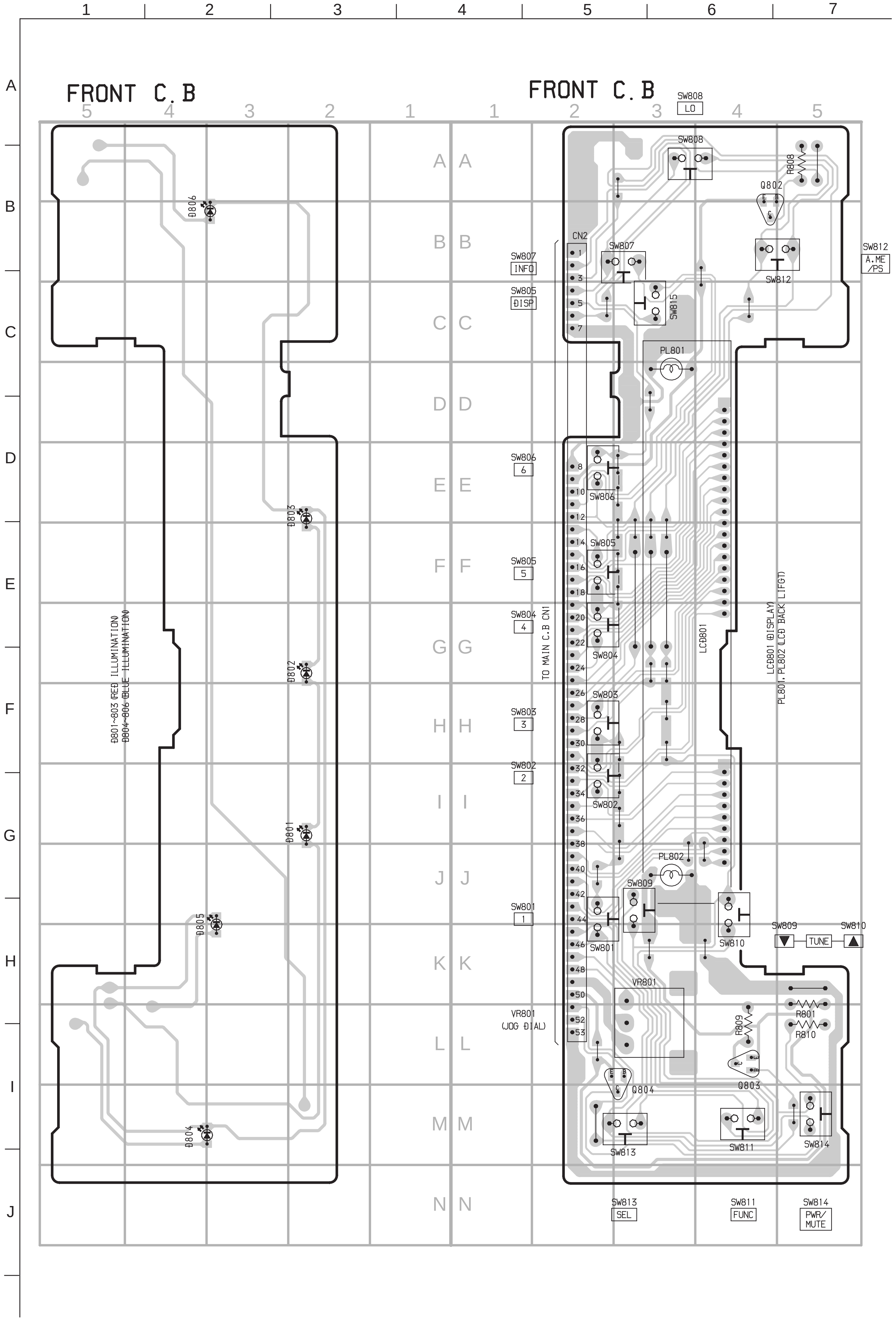


SCHEMATIC DIAGRAM



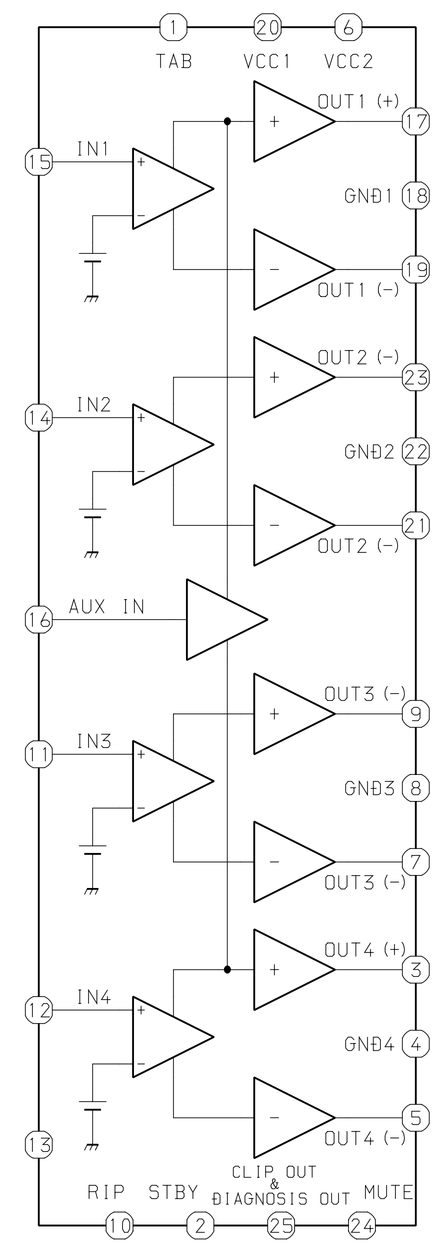

MAIN C.B
HEAD C.B
AUX C.B
TO ANTENNA
CON601 TO POWER SUPPLY/ SPEAKER
FL (+) FL (−)
RL (+) RL (−)
RR (+) RR (−)
FR (+) FR (−)
NC NC
A-ANT NC
ACC NC
GND BATT
F601 10A
CNA201
BLK RED WHT
SW1 (F/R)
PH
SW1
VLT
GRY
BRN
RED
M1 (REEL MOTOR)
SW3 (FF/REW)
SW2 (TAPE IN)
BLU GRN ORG YEL
CNA202
GRY VLT BLU GRN YEL ORG RED BRN
SW901 10K 9K
CD301
J301 CD/MD IN
CN1
TO FRONT C.B CN2
IC401
IC501
IC701
IC201
TUN101

WIRING-2



IC BLOCK DIAGRAM-2

IC, TA8259H

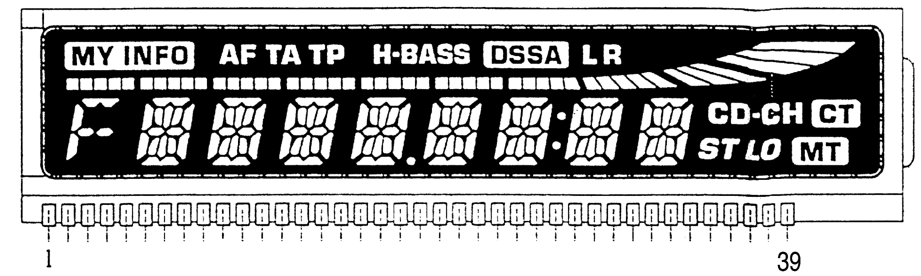


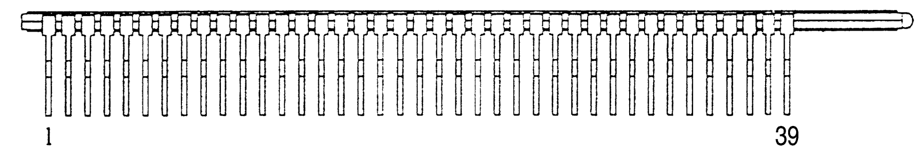
IC DESCRIPTION

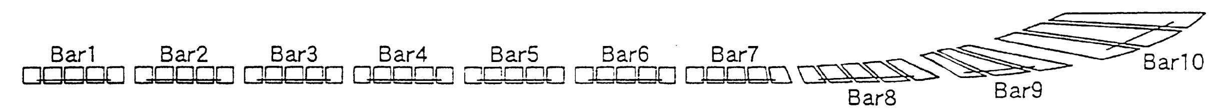
IC, LC72336

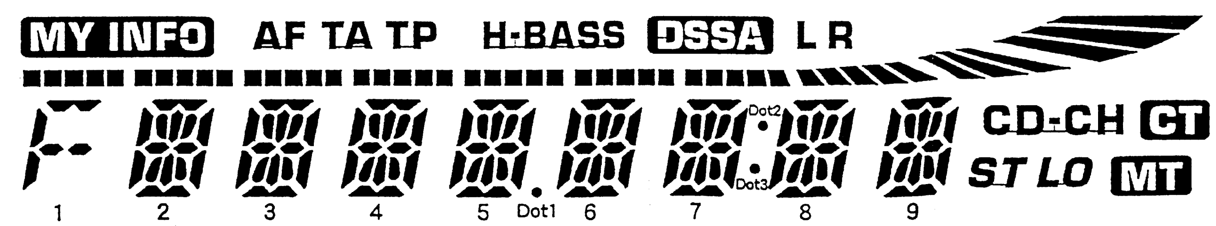
Pin No.	Pin Name	I/O	Description
1	X-IN	I	System clock oscillator.
2	TEST2	I	Device test input.
3	RE1	I	Rotary encoder input 1.
4	CLK-AVR	O	Clock output to electronic VR (LC75374)
5	DATA EVR	O	CE output to electronic VR (LC75374)
6	CE EVR	O	Chip enable output to electronic VR (LC75374)
7	LED CONT	O	LED control.
8-14	T6-T0	O	Key scan signal output.
15-18	K3-K0	I	Key scan signal input.
19	LOCAL	O	LOCAL/DX switching signal output during seeking. (LOCAL = H)
20	RE2	I	Rotary encoder input 2.
21	IF-REQ	O	IF CONT signal request output. (REQ ON = H)
22	TAPE IN	I	Tape inserted status detection input.
23	AUDIO MUTE	O	Audio muting output.
24	STANDBY MUTE	O	Standby muting output to power amp.
25	POWER MUTE	O	Muting output to power amp.
26	BEEP	O	Beep sound output.
27	NC	-	Not connected.
28-55	S27-S1	O	Display segments signal output.
56-58	COM3-COM1	O	Common 3-1 for display.
59-60	VDD2-VDD1	-	Device power supply.
61	RADIO CONT	O	Radio mode control output. (RADIO = L)
62	BAND CONT	O	Radio band control output. (FM = L, AM = H)
63	MOTOR CONT	O	Motor control output. (Motor ON = H)
64	POWER CONT	O	Unit power control output.
65	PHONE MUTE	I	Muting control.
66	FF/REW	I	Tape fast forward and fast rewind mode detection input.
67	SD/ST	I	SD : Stop pulse input when seeking FM/AM station. ST : Display input (STEREO = H) accepted only during reception.
68	TA DIR	I	FWD/REV mechanism position detection input. (FWD = H)
69	ACC-IN	I	Car accessory on/off input. (ON = H)
70	IF-IN	I	IF CONT signal input.
71	NC	-	Not connected.
72	SNS	I	Voltage failure judgement input.
73	VDD	-	Device power supply.
74	FMOSC	I	FM local oscillation input.
75	AMOSC	I	AM local oscillation input.
76	VSS	-	Device ground.
77	LPF	O	Charge pump output for low-pass filter.
78	LPF	-	Not connected.
79	TEST1	I	Device test input.
80	XOUT	O	Crystal oscillator output.

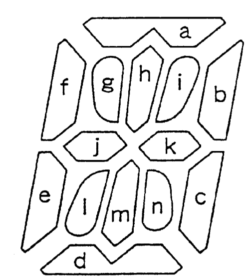
LCD DISPLAY







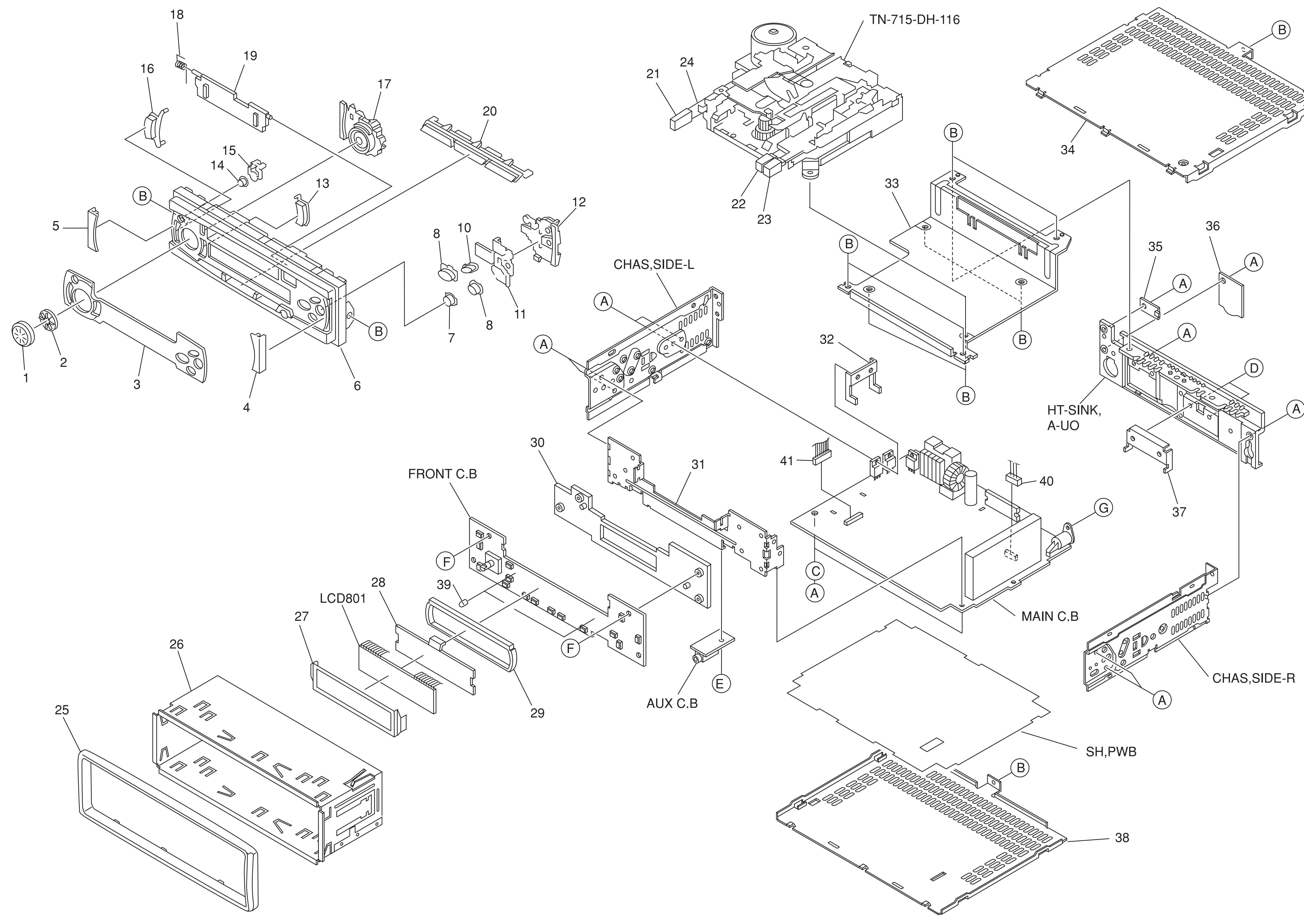




No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
COM1	—	—	—	COM1	MT	TP	AF	2d	2m	2n	Bar2	3d	3m	3n	TA	4d	4m	4n	H-BASS	5d
COM2	—	—	COM2	—	LO	R	DSSA	2e	2l	2k	2c	3e	3l	3k	3c	4e	4l	4k	4c	5e
COM3	—	COM3	—	—	CD-CH	Bar10	Bar9	2f	2j	2i	2b	3f	3j	3i	3b	4f	4j	4i	4b	5f
COM4	COM4	—	—	—	CT	MY INFO	Bar1	1a,e,f,j,k	2g	2h	2a	Bar3	3g	3h	3a	Bar4	4g	4h	4a	Bar5

No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
COM1	5m	5n	Dot1	6d	6m	6n	L	7d	7m	7n	Dot3	8d	8m	8n	—	9d	9m	9n	ST
COM2	5l	5k	5c	6e	6l	6k	6c	7e	7l	7k	7c	8e	8l	8k	8c	9e	9l	9k	9c
COM3	5j	5i	5b	6f	6j	6i	6b	7f	7j	7i	7b	8f	8j	8i	8b	9f	9j	9i	9b
COM4	5g	5h	5a	Bar6	6g	6h	6a	Dot2	7g	7h	7a	Bar7	8g	8h	8a	Bar8	9g	9h	9a

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL MAIN PARTS LIST 1/1

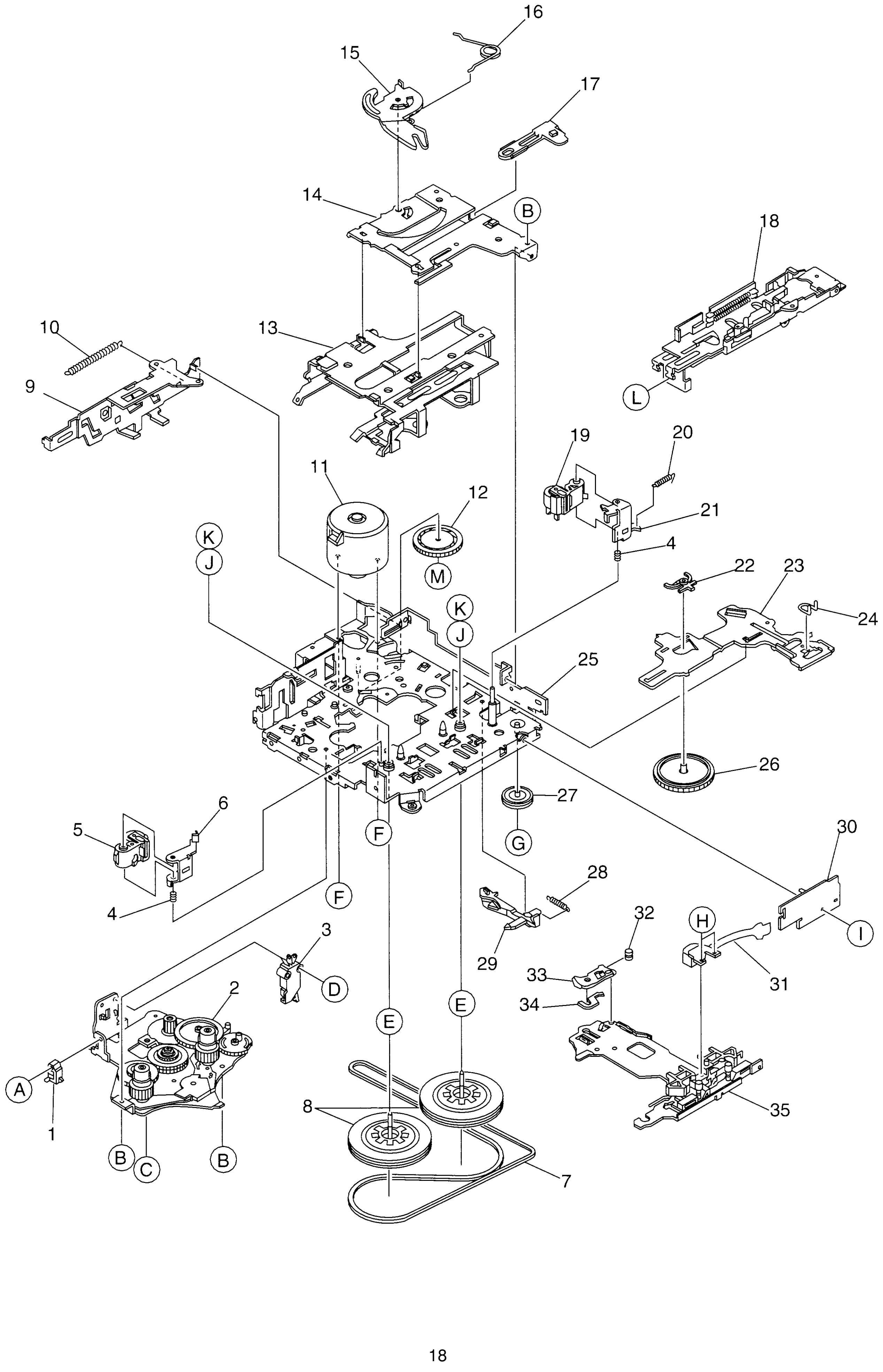
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KTF-020-010		KNOB,RTRY NON RUBBER
2	8A-KT5-021-010		RING,RTRY A
3	8A-KTH-008-010		WINDOW,LCD Z110 35W
4	8A-KTF-005-010		WINDOW,R F
5	8A-KTF-004-010		WINDOW,L F
6	8A-KTH-001-010		CABI,FRONT H
7	8A-KT5-016-010		BTN,INFO
8	8A-KT5-013-010		BTN,DISP
9	8A-KT5-015-010		BTN,LO
10	8A-KT5-014-010		BTN,A/M
11	8A-KT5-210-010		HLDR,BTN MU
12	8A-KTF-206-010		LENS,R F
13	8A-KTG-003-010		BTN,UP/DN G
14	8A-KT5-012-010		BTN,PWR
15	8A-KT5-211-010		HLDR,BTN DISP
16	8A-KTF-013-010		BTN,FNC F
17	8A-KTF-205-010		LENS,ENCO F
18	8Z-KT1-244-010		SPR-T,DOOR Z
19	8Z-KT1-023-110		DOOR,CASS
20	8A-KTG-004-010		BTN,P.SET G
21	8A-KTH-003-010		BTN,EJECT H
22	8A-KTH-005-010		BTN,REW H
23	8A-KTH-004-010		BTN,FF H
24	8Z-KTH-204-010		LEVER,EJ-T17
25	8A-KTH-006-010		CABI,TRIM H
26	8Z-KT1-231-010		HLDR,HALF-T
27	8A-KTG-201-010		HLDR,LCD G
28	8A-KTG-203-010		LENS,LCD G
29	8A-KTG-202-010		CASE,LCD G
30	8A-KTH-203-010		HLDR,PWB H
31	8A-KTH-202-010		CHAS,FRONT H
32	8A-KT5-204-010		HLDR,TR
33	8A-KTH-201-010		HLDR,DECK H
34	8Z-KT1-211-010		COVER, TOP -T
35	8Z-KT5-201-010		COVER, ISO BLIND -T
36	8Z-KT4-201-010		COVER, CD BLIND -T
37	8A-KTF-201-010		HLDR,IC F
38	8Z-KT1-212-010		COVER, BOTTOM -T
39	8Z-KT1-239-010		CAP,LAMP BLU B
40	8Z-KTH-652-010		CONN ASSY,3P (HEAD)
41	8Z-KTH-651-010		CONN ASSY,8P (DECK)
A	87-251-073-410		SCREW,U+2.6-6
B	88-KT1-250-010		S-SCREW,THIN HEAD+2.6-4 BLK
C	87-432-903-010		WASHER,WTE 2.6
D	87-251-097-410		U+3-12
E	87-253-034-410		U+2-5 BLK
F	87-251-092-410		U+3-4
G	87-251-076-410		U+2.6-12

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MECHANISM EXPLODED VIEW 1/1



MECHANISM MAIN PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S6-405-040-020		PUSH SW SW-230-2
2	S1-960-063-120		MG PLATE Z ASSY
3	S6-405-010-360		SW,OAS-1229-4
4	S1-960-140-140		P.P SPRING
5	S1-960-043-020		PINCH ROLLER ARM(R)ASSY
6	S1-960-140-120		HP RETURN ARM
7	S1-940-140-170		MAIN BELT
8	S1-960-133-010		FL CAPSTAN ASSY
9	S1-960-095-020		PUSH LEVER Z RIVET ASSY
10	S1-960-090-030		PUSH LEVER SPRING
11	S1-960-113-040		MOTOR ASSY MC1-5U3LBS
12	S1-940-141-230		MAIN GEAR V
13	S1-960-083-010		CASS CASE ASSY
14	S1-960-080-070		CASE LEFTER B
15	S1-960-080-080		P.S ACTUATOR PLATE B
16	S1-960-080-060		REVERSE SPRING
17	S1-960-080-090		PACK SLIDER B
18	S1-960-153-120		FR LEVER ASSY
19	S1-960-043-010		PINCH ROLLER ARM(F)ASSY
20	S1-960-150-050		LOCK PLATE SPRING
21	S1-960-150-040		LOCK PLATE
22	S1-960-030-020		P.GEAR METAL
23	S1-960-100-010		MAIN PLATE
24	S1-960-100-020		H.S SPRING
25	S1-960-015-010		CHASISS RIVET ASSY
26	S1-960-030-030		P.GEAR
27	S1-940-141-150		MIDDLE PULLEY
28	S1-960-140-020		TA,SPRING
29	S1-960-140-010		TRIGGER ARM
30	S1-960-033-030		HEAD SW ASSY(D)
31	S6-201-070-530		P HEAD P-7742 BB-0573
32	S1-960-140-220		H.P ROLLER
33	S1-960-140-250		H.P PUSH ARM B
34	S1-960-140-060		HP PUSH PLATE
35	S1-960-034-020		HEAD PANEL ASSY(D)
A	S9-P12-200-710		TAMS TAPPING SCREW S 2-7
B	S9-C04-203-030		CAMERA SCREW(TAPPING)S2.0-3
C	S9-C42-202-010		CAMERA TAPPING SCREW S3 2-2
D	S9-C39-208-010		TS.S TAMS SCREW 2-8
E	S9-W05-131-000		HIMERON WASHER 1.55-3.8-0.13
F	S9-P02-200-310		TAMS SCREW 2.0-3
G	S9-W02-250-100		P.WASHER(CUT)0.85-2.8-0.25
H	S9-F27-204-010		FIX SCREW
I	S9-P12-200-510		TAMS SCREW(TAPPING)S2.0-5
J	S9-W05-200-800		HIMELON WASHER 1.55-3-0.2
K	S9-W08-500-600		LUMILAR WASHER 1.25-3.2-0.5
L	S9-C02-264-520		CAMERA SCREW(TAMS)2.6-4.5
M	S9-W06-250-300		HIMELON WASHER(CUT)1.2-3-0.25

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